

MAKAROVA, V. S., Cand Tech Sci -- (diss) "Study of the process of
~~overall~~ ^{total} evaporation on irrigated lands." Mos, 1958. 18 pp
(Min of Agriculture USSR, All-Union Order of Lenin Academy of Agr Sci
im V. I. Lenin, All-Union Sci Res Inst of Hydraulic Engineering and
Amelioration), 110 copies (KL, 16-58, 120)

PREOBRAZHENSKIY, T.N.; MAKAROVA, V.S.

Circulating underground drainage. Izv.AN Turk.SSR no.4:43-47 '55.
(MLRA 9:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i
melioratsii.

(Soil moisture) (Drainage)

PREOBRAZHENSKIY, T.N.; MAKAROVA, V.S.

Role of plant moisture uptake from lower soil horizons in drainage of irrigated lands in the Kara Kum Canal zone. Izv. AN Turk. SSR no. 2: 34-42 '55. (MLRA 9:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii.

(Kara Kum Canal--Irrigation) (Kar Kum Canal--Soil moisture)

ACC NR: AP6035877 (A,N) SOURCE CODE: UR/0413/66/000/020/0103/0103

AUTHOR: Torban, M. A.; Beylinson, A. V.; Dombrovskaya, N. L.; Makarova, V. R.

ORG: none

TITLE: Method of obtaining pseudocholinesterases. Class 30, No. 187238

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 103

TOPIC TAGS: cholinesterase, pseudocholinesterase, chemical synthesis

ABSTRACT: An Author Certificate has been issued for a method of obtaining pseudocholinesterases by salting out ammonium sulfate. To reduce costs and to increase the purity of the material, the by-products of serum production are treated with heavy-metal salts and ammonium sulfate. [WA-50]

SUB CODE: 07/ SUBM DATE: 07Jul62

Card 1/1

UDC: 615.45:615.779.94

ACC NR: AP6035877 (A₁N) SOURCE CODE: UR/0413/66/000/020/0103/0103

AUTHOR: Torban, M. A.; Baylinson, A. V.; Dombrovskaya, N. L.; Makarova, V. R.

ORG: none

TITLE: Method of obtaining pseudocholinesterases. Class 30, No. 187238

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 103

TOPIC TAGS: cholinesterase, pseudocholinesterase, chemical synthesis

ABSTRACT: An Author Certificate has been issued for a method of obtaining pseudocholinesterases by salting out ammonium sulfate. To reduce costs and to increase the purity of the material, the by-products of serum production are treated with heavy-metal salts and ammonium sulfate. [WA-50]

SUB CODE: 07/ SUBM DATE: 07Jul62

MAKAROVA, V.R.

Altitude of the steering current for cyclones passing over Central
Asia and southeastern Kazakhstan. Nauch.trudy TashGU no.225 Fiz.
nauch. no.22:114-122 '64. (MIRA 18:12)

1-35547-05
ACCESSION NO: R5000052

the orientation of jet stream axes. Most upper-level cloud forms over Central Asia and southeastern Kazakhstan lie on the left, cold side of the jet stream, whatever the position of the jet stream. V. Bayev

SUB CODE: 23

ENCL: 00

Page 2/2

1997 1998

10
B

RESEARCH ARTICLE

1980-01-196

FILED 30 MAR 1964 Tr. Bradstreet, R.-1, 6:45 and 10:00 A.M., W. 19(34), 1964, 17-23

TOPIC TAGS: cloud, cloud cover, jet stream, polar front, jet stream

translation. The relationship between cloud cover and jet streams is considered on the basis of synoptic data for two months. Only polar front jet streams were investigated. These are divided into three types: southerly, northerly and double. The first include all cases when both jet streams were situated near 40°N. Northerly jet streams are those which occur at 45°N and to the north. The third group includes double jet streams in which there is a second axis to the north of 45° in addition to a southerly axis. The distribution of the number of cloud cover observations for different types of jet streams is given and a relationship is established between the frequency of cloud fronts of upper and middle levels and

11-12

0 20472-65

ACCESSION NO: ARA039987

velocity must be multiplied for an estimation of the velocity of movement of cyclones. The relationship between the velocity of movement and the mean velocity of the geostrophic wind in the 700-300-mb layer was most reliable for all types of cyclones. The correlation coefficient in this case is $r = 0.78$ and the correction factor is $k = 0.7$. The levels of the steering flow for cyclones belonging to the different types do not coincide. For example, the rate of movement of westerly cyclones for the most part agrees better with the velocity of the geostrophic wind at the 500-mb surface ($r = 0.76$, $k = 0.7$), but for forecasting of the movement of South Caspian cyclones it is recommended that wind velocity at the 700-mb surface ($r = 0.71$, $k = 0.9$) be used. A. Rzaev.

ASSOCIATION: Tashkentkiy universitet (Tashkent University)

SUB-ORIG: RS

ENCL: 00

2. 28-12-62 EXP 11/700 GW
ACCESSION NO. AR403987

8/0109/64/000/004/8030/8038

SOURCE: Izv. Ak. Geofiz. Abs. 48241

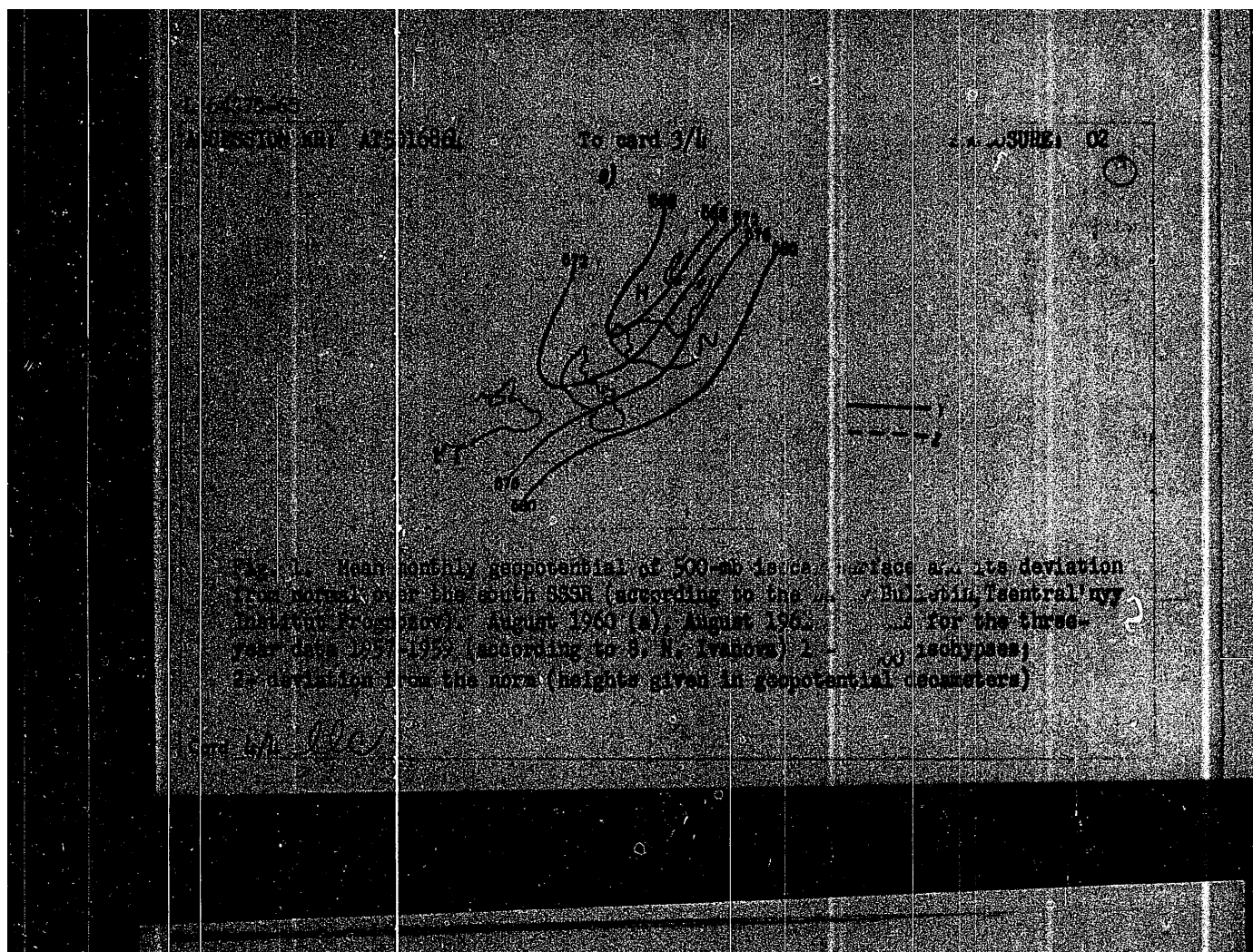
AUTHOR: Mal'KOVA, V. E.

TITLE: The problem of the height of the steering flow for cyclones passing over Central Asia and southeastern Kazakhstan

CITE SOURCE: Nauchn. tr. Tashkentsk. un-t. vyyp. 323, 1963, 114-122

NOTE TAGS: steering flow, cyclone, wind velocity, geostrophic wind, weather forecasting

TRANSLATION: The height of the level of the "steering flow" is studied by a classification of the relationship between movement of cyclones over Central Asia and Kazakhstan and wind velocities at the 700-, 500- and 300-mb surfaces. During the cold season (December-April) of 1958-1959 there were 62 cyclones which were classified into 4 types. The author analyzes the correlation between the mean velocity of cyclones of each type and the velocity of the geostrophic wind at each of the three levels, and also with the mean velocity at all three levels. Sixteen sets of curves were constructed. In addition to the corresponding 16 correlation coefficients the author found the correction factors by which wind



ENCLOSURE 01

ENCLOSURE 01



6/23/11

To card 11/1

1. GEF 545
 (KUBARK) NR 1 (KUBARK)

3

Additional use is made of wind charts for the same periods. Only polar front jet streams are studied; such jet streams are frequently encountered at an altitude of 300 km. The analysis of jet streams was conducted on A¹300 and A¹200 charts, and the streams are categorized as southern, northern, and double. Southern streams are those having an axis of stream flow around 40° north longitude, northern streams are those found north of 45°, and the third group consisted of streams which have a flow axis north of 45° and also have a second axis to the south. A total of 200 observations was made. Data are presented on the frequency of occurrence of various cloud types noted simultaneously with the occurrence of a particular category of jet stream. Additional data are related pertaining to geomagnetic disturbances during the same observation periods. A summary of the geopotential data is presented in Fig. 1 on the Enclosure. The author notes disagreement with the conclusions of V. I. Gerasimov (Cirrus pattern near the jet stream, 1952, *Iskretsiya*, No. 27-30/1, 1953, *IAMS*, vol. 21, 1953) and V. J. Shaeffer (On the use of cloud for locating the jet stream, *Aeroplance*, 30/1, 1953), *Orig.* and *Ac.* 1 figure.

ASSOCIATION: *neobshchestvenno-nauchno-issledovatel'skiy gidrometeorologicheskii*
 (General Scientific Research Hydrometeorological Institute) 44,54

REMARKS: 00

ENCL: 02

SUB CODE: 15

FOURTH DIV: 00

OTHER: 002

Code 2/1

0001/000 0001/000 00

ADDITIONAL INFO: 0001/000

0001/000 0001/000 0001/000

AUTHOR: Shchegolev, V. R. 44, 35

16
13
B-1

TITLE: Cloudiness and jet streams over Central Asia and Kazakhstan in August 1960 and 1961

SOURCE: Vestnik Sredneaziatiskogo nauchno-issledovatel'skogo gosudarstvennogo universiteta, Tashkent, no. 19(31), 1966. Neposredstvennoye regional'noye issledovanie (Programs in regional synoptics of Central Asia), 17-25

NOTE: Abstracts, climatology, jet streams, cloud, clear cover

ABSTRACT: The relationship between cloudiness and jet streams in Central Asia and Kazakhstan is studied. The study is based upon mesosynoptic data of August 1960 and August 1961. Weather characteristics of the area are affected by the presence of the Caspian Sea to the west, mountainous regions to the southeast and east, and a desert in the center. A brief review of prior weather research in this region is given. The current study utilizes data on cloudiness from only synoptic maps of the Russian Bureau of Weather covering the territory lying between 45° - 50° east longitude and 35° - 52° north latitudes during August, 1960 and 1961.

Page 1/1

An analytical application ...

S/075/63/018/001/006/010
E071/E452

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im.
V.I.Vernadskogo AN SSSR, Moskva (Institute of
Geochemistry and Analytical Chemistry imeni
V.I.Vernadskiy AS USSR, Moscow)

SUBMITTED: May 4, 1962

Card 2/2

S/075/63/018/001/006/010
E071/E452

AUTHORS: Savvin, S.B., Basargin, N.N., Makarova, V.F.

TITLE: An analytical application of dibromoarsenazo II.
The determination of thorium in the presence of rare earth elements

PERIODICAL: Zhurnal analiticheskoy khimii, v.18, no.1, 1963, 61-65

TEXT: The results of an investigation of the applicability of dibromoarsenazo II for the photometric determination of thorium indicated that it can be used for this purpose in the presence of rare earth elements which in 1N hydrochloric acid do not interfere with the determination up to a ratio of 1:5000. The sensitivity of the determination is 0.05 µg/ml of thorium. Sulphates and phosphates in quantities of up to 100 mg in 25 ml of the solution do not interfere with the determination. The reagent may also be useful for the determination of some other elements, as it produces sufficiently contrasting reactions with boron, UO_2^{2+} , vanadiumIV and rare earth elements (the colour formed and maximum permissible acidity for the individual elements is given). The method of the synthesis of the reagent is outlined. There are 4 figures and 2 tables.

Card 1/2

SAVVIN, S.B.; DEDKOV, Yu.M.; MAKAROVA, V.P.

New metal indicators for barium ions. Determination of sulfates.
Zhur.anal.khim. 17 no.1:43-47 Ja-F '62. (MIRA 15:2)

1. V.I.Vernadsky Institute of Geochemistry and Analytical Chemistry,
Academy of Sciences, U.S.S.R., Moscow.
(Indicators and test papers) (Barium sulfate)

An Investigation of the Composition of the Hydrocarbons C_6 - the 79-11-4/56
By-Products of the Catalytic Synthesis of Divinyl From Alcohol.

methylpentadiene 1,3. 3) cyclohexadiene-1,3. Thus the presence of the combined dienes. 1) hexadiene-1,3. 2) 3-methylpentadiene-1,3 and 3) cyclohexadiene-1,3 was determined in the hexylene-hexadiene fraction of the hydrocarbons, the by-products of the catalytic synthesis of divinyl from alcohol according to Lebedev, and the way of their formation was partially suggested. There are 19 references, 9 of which are Slavic.

ASSOCIATION: The Laboratory of the Factory SK and the Leningrad State University (Laboratoriya zavoda SK i Leningradskiy gosudarstvennyy universitet).

SUBMITTED: November 23, 1956.

AVAILABLE: Library of Congress.

1. Divinyl-Synthesis
2. Diene syntheses
3. Ethanol-Catalysis
4. Hydrocarbons-Analysis

Card 2/2

MAKAROVA V. P.

AUTHORS: Sinayskiy, G. M., Ratner, T. V., Makarova, V. P., 79-11-4/56
Gorin, Yu. A., Ivanov, V. S., Alferova, L. V.

TITLE: An Investigation of the Composition of the Hydrocarbons C_6 - the
By-Products of the Catalytic Synthesis of Divinyl From Alcohol
(Izucheniye sostava uglevodorodov C_6 - pobochnykh produktov katali-
ticheskogo sinteza divinila iz spirta).

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11, pp. 2927-2931 (USSR).

ABSTRACT: The investigation of ethyl alcohol in divinyl over a catalyst repre-
sents a complicated catalytic process which is accompanied by a con-
siderable amount of side reactions. In spite of the informative pa-
pers by S. V. Lebedev and Ya. A. Gorin in the field of the catalytic
formation of the combined dienes (C_nH_{2n-2}) from alcohols, their bina-
ry mixtures, and the mixtures of the alcohols with aldehydes and
ketones with regard to the by-products, their composition is by far
not sufficiently investigated. Of the insufficiently investigated
by-products obtained on rectification of hydrocarbons the so-called
hexylene-hexadiene fraction (boiling point 60-90°C) is the object of
the authors' investigation. On further rectification the following
were obtained beside other by-products. 1) hexadiene-1,3. 2) 3-

Card 1/2

MAKAROVA, V. P.

LAPIN, L.N.; ZAMANOV, R.Kh.; MAKAROVA, V.P.

Colorimetric method for determining ammonia in soil with the aid
of the thymol-hypobromite reaction [with summary in English].
Pochvovedenie no.4:95-98 Ap '57. (MIRA 10:7)

1. Uzbekskiy gosudarstvennyy universitet, Biologo-pochvennyy
fakul'tet, G. Samarkand.
(Soils--Analysis) (Ammonia) (Colorimetry)

[illegible]

SMIRNOVA, A.V.; KRASNOVA, A.K.; VOLKOVA, L.A.; MAKAROVA, V.N.

Methods for the exposure and determination of the grain size
of austenite in steel. Standartizatsiia 27 no.5:23-28 My '63.
(MIRA 16:6)

(Austenite--Metallography)

MAKAROVA, V. M.: Master Agric Sci (diss) -- "Some procedures in the agrotechnology of the spring sowing of regionally graded varieties of spring wheat on sod-meadow soils in Perm' Oblast". Perm', 1958. 21 pp (Min Agric USSR, Perm' State Agric Inst im Acad D. N. Pryanishnikov), 150 copies (KL, No 4, 1959, 129)

Properties of...

S/549/62/000/106/001/010
I003/I203

increases the vibration resistance of the weld by up to 15%. The static strength of the weld is equal to that of the 1Kh18N9T steel, up to a temperature of 550°C and cannot be increased by heat treatment. By heating to 1030°C and quenching in water the weld is completely homogenized and the Kh17N2 sheet acquires a high degree of hardness. The short-time strength of butt welds between 1Kh18N9 and Kh17N2 sheets is the same as the ultimate strength of the Kh17N2 sheet. Welds between 1Kh18N9T and Kh17N2 are less sensitive to stress raisers than those between 1Kh18N9T sheets. Kh17N2 steel and Kh12N19 steel can be successfully welded only when the sheets are in the annealed and in the hardened condition, respectively. In order to increase the strength of the weld between these steels it must be tempered and precipitation-hardened. The general conclusion of the authors is that the technology of welding and heat treatment of thin sheets of heat-resistant materials must be chosen for each individual case. There are 23 figures.

Card 2/2

1.2360

41862
3/549/82/000/106/001/010
I003/I203

AUTHORS: Makarov, I.I., Cand. Techn. Sciences and Makarova, V.I., Cand. Techn. Sciences

TITLE: Properties of welding joints between thin plates of various heat-resisting materials

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. [Trudy] no. 106, 1962. 47-65. Svarka tsvetnykh splavov i nekotorykh legirovannykh staley

TEXT: Welding of thin (0.5-1.5mm) sheets of different heat-resisting steels raises technological difficulties as cracks may be formed both during welding and during subsequent treatment. The present work elucidates some problems concerning heat-treatment, corrosion resistance, and vibration resistance of welds formed between thin sheets of X17H2 (Kh17N2) steel and thin sheets of either LX18H9T (LKh18N9T) steel or hardenable X12H19 (Kh12N19) steel. The results of the investigation showed that satisfactory welds between sheets of (LKh18N9T) and (Kh17N2) can be obtained by the argon-shielded-arc welding process, using direct current and (LKh18N9T) wire. Cooling the edges during welding

Card 1/2

ALEKIN, L.Me., dotsent, kand.tekhn.nauk; GLADILIN, A.N., dotsent, kand.
tekhn.nauk; KRASAVIN, V.S., starshiy prepodavatel'; LIFERENKO,
N.H., dotsent, kand.tekhn.nauk; MAKAROVA, V.I., dotsent, kand.
tekhn.nauk; KHRENOV, A.D., starshiy prepodavatel'. Prinimali
uchastiye: LUNKV, F.A. [deceased]; RASTORGUYEV, I.S. [deceased];
BININSKIY, M.Ya., red.; DORODNOVA, L.A., tekhn.red.

[General technology of metals] Obshchaia tekhnologiya metallov.
Izl.3., perer. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Prof-
tekhizdat, 1960. 381 p. (MIRA 13:12)
(Metals) (Metalwork)

Makarova, Vera Ivanovna

ALEKIN, Lev Yemel'yanovich; GLADILIN, Anatoliy Nikolayevich; KRASAVIN, Vasilii Stepanovich; LUNEV, Fedor Andreyevich; MAKAROVA, Vera Ivanovna; RASTORGUYEV, Ivan Sergeyevich; KHRENOV, Aleksey Dmitriyevich; TSEYTLIN, V.Z., kandidat tekhnicheskikh nauk, redaktor, RZHAVINSKIY, V.V., inzhener; redaktor; SHUR, D.S., redaktor; EIGHERT, A.P., tekhnicheskii redaktor.

[General technology of metals] Obshchaya tekhnologiya metallov.
Moskva, Vse.uchebno-pedagog.izd-vo Trudrezervizdat, 1956. 327 p.
(Metals)

MAKAROVA, V.I.

Determination of the modulus of elasticity in torsional vibration.
Zav.lab. 21 no.3:354-355 '55. (MIRA 8:6)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.
(Elasticity) (Vibration)

MAKAROVA, V.I., kandidat tekhnicheskikh nauk.

Investigating mechanical properties of U12 tool steel hardened
by high-frequency currents. [Trudy] MVTU no.41:131-135 '55.
(MLRA 9:10)

(Steel--Heat treatment)

MAKAROVA, V.I., kandidat tekhnicheskikh nauk.

Investigating mechanical properties of heat-treated high-speed
steel. [Trudy] MVTU no.41:124-130 '55. (MLRA 9:10)

(Steel--Heat treatment)

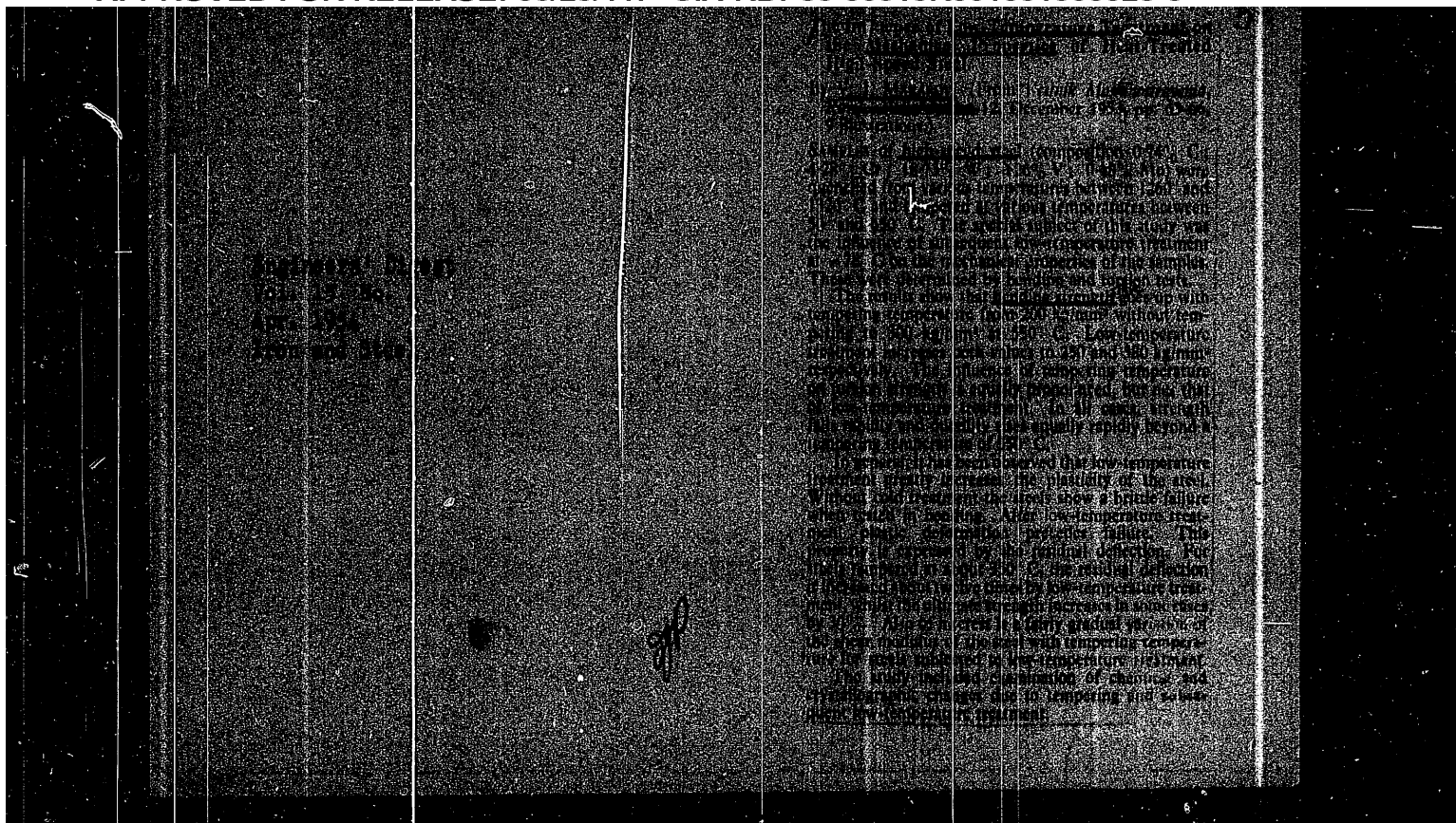
SIDORIN, I.I., professor; ~~MAKAROVA, V.I.~~, kandidat tekhnicheskikh nauk.

Investigating the heat treatment of fuel-pump plunger pairs
made of KhVG steel. [Trudy] MVTU no.41:117-123 '55.

(MLRA 9:10)

(Steel alloys--Heat treatment)

[illegible]



MAKAROVA, V. I. *Lead Tech. Sci.*

"Investigation of the Mechanical Properties of Heat-Treated Steel RF-I."
Sub 11 Jun 51, Moscow Order of the Labor Red Banner Higher Technical
School imeni Bauman

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SC: Sum. No. 480, 9 May 55

MAKAROVA, V.I., kand.tekhn.nauk, assistant

Damaging of cotton fibers by micro-organisms. Tekst.pron.
19 no.10:29-32 0 '59. (MIRA 13:1)

1. Leningradskiy institut sovetskoy trgovli.
(Cotton research)

MAKAROVA, V. I., Cand Tech Sci -- (diss) "Role of microorga-
nisms of cotton fiber in the ~~process of production of thread.~~
Mos, 1957. 20 pp (Min of ~~National Economy~~ ^{Commerce Trade} USSR, Mos Inst of
National Economy im G. V. Plekhanov), 100 copies (KL, 52-57,
107)

MAKAROVA, V. I.

USSR / Microbiology. Technical Microbiology.

F-3

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21891

Author : Makarova, V.I.

Inst :

Title : Increase in Damage to Cotton Fibers by Microorganisms During
The Spinning Process.

Orig Pub: Sb. nauch. rabot. Leningr. in-ta sov. trgovli, 1955, No 9,
87-95

Abstract: Prolonged storage without mechanical treatment of cotton blends in spinning-threading workshops brought on a growth of microorganisms, increased the degree of damage, and decreased the fiber durability. The same effect was noted in the process of mechanical treatment, but was less noticeable because the broken and torn fibers were carried off in waste matters. Increase in damage is aided by originally higher fiber moisture and favorable conditions of air temperature and moisture in the workshops. The damage is caused by the activity of epiphytic microorganisms

Card : 1/2

-31-

STAROSHEL'SKAYA-NIKITINA, O.A.; KRASNOUKHOVA, O.V.; MAKAROVA, V.I.; KAMINER, L.V.; PIL'SHCHIKOVA, P.V.; GRIGOR'YAN, A.T., redaktor; IVANOV, D.D., redaktor; FIGUROVSKIY, N.A., redaktor; ANTONYUK, L.D., redaktor; SOKOLOVA, T.F., tekhnicheskii redaktor

[History of the natural sciences; literature published in the U.S.S.R. (1948-1950)] Istoriiia estestvoznaniia; literatura, opublikovannaiia v SSSR (1948-1950). Otvetstvennye redaktory: A.T.Grigor'ian, D.D.Ivanov, N.A.Figurovskii. Moskva, Izd-vo Akademii nauk SSSR, 1955. 395 p. (MLRA 8:7)

(Bibliography--Science--History)

KUDRYAVTSIN', P.S., prof.; SPASSKIY, B.I., dots.; MAKAROVA, V.I., kand.
filos. nauk; NIKOLAYEVA, B.L., tekhn. red.

[Programs of pedagogical institutes; the history of physics;
major: physics] Programmy pedagogicheskikh institutov; istoriya
fiziki. Spetsial'nost' - fizika. [Moskva] Uchpedgiz, 1956. 5 p.
(MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i
srednikh pedagogicheskikh uchebnykh zavedeniy.
(Physics--Study and teaching)

MAKAROVA, V.I. (Moscow)

In the RSFSR Ministry of Education. Fiz. v shkole 14 no.4:91
J1-Ag 154. (MIRA 7:7)
(Physics--Study and teaching) (Mathematics--Study and
teaching)

MOICHANOV, L.N. .; MAKAROVA, V.I.; AKKERMAN, B.Z.

Late results of surgical treatment of wounds of the heart. Sov. med.
22 no.12:8-12 D '58. (MIRA 12:1)

1. Iz kafedry khirurgii i neotlozhnoy khirurgii (zav. - prof. P. V.
Kravchenko) Kazanskogo gosudarstvennogo instituta usovershenstvovaniya
vrachey na baze 5-y gorodskoy bol'nitsy (glavnyy vrach M. Ya. Liss).
(HEART, wds. & inj.
surg., remote results (Rus))

IOFA, Z.A.; MAKAROVA, V.A.

Effect of halogen ions and organic surface-active substances
on hydrogen-ion discharge reaction on a copper electrode in
acid solutions. Elektrokhimie 1 no.2:230-233 F '65.

(MIRA 18:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

VOROB'YEV, A.A.; KOROBOV, A.M.; POYARKOVA, M.A.; KORNEV, I.S.;
ANDROSHCHUK, S.M.; prinitiali uchastiye: MORLUYEVA, A.A.; ICONINA,
Yu.A.; CHERNOVA, Yu.S.; NIKOLAYENKO, Yu.P.; MAKAROVA, V.A.

Method for preparing sorbed tetanus anatoxin from a purified and
concentrated toxin. Zhur.mikrobiol., epid.i immun. 33 no.8:107-112
Ag '62. (MIRA 15:10)

(TOXINS AND ANTITOXINS) (TETANUS)

CHIRESHKINA, N.M., kand.med.nauk; MAKAROVA, V.A.; VLASOVA, I.N.

Use of phenoxymethylpenicillin (penicillin V) in scarlet fever.
Pediatriia no.2:73-76 '62. (MIRA 15:3)

1. Iz kliniki detskikh bolezney (dir. - deystvitel'nyy chlen
AMN SSSR prof. Yu.F. Dombrovskaya) I Moskovskogo meditsinskogo
instituta imeni I.M. Sechenova na baze Gorodskoy infektsionnoy
bol'nitsy No.2 (glavnyy vrach A.M. Pyl'tsova).
(SCARLET FEVER) (PENICILLIN)

CHIRESKHINA, N.M.; MAKAROVA, V.A.; DREYZIN, R.S.

Pathogenic role of adenoviruses in patients with whooping cough and measles. *Pediatrics* 39 no.4:34-37 Ap '61. (MIRA 14:4)

1. Iz kliniki detskikh bolenaey (zav. kafedroy - deystvitel'nyy chlen AMN SSSR prof. Yu.F. Dombrovskaya) i Moskovskogo meditsinskogo instituta imeni I.M. Sechenova na baze gorodskoy infektsionnoy bol'nitsy No.2 (glavnyy vrach A.M. Pyl'tsova) i laboratoriya katarov serkhikh dykhatel'nykh putey (zav. - prof. B.M. Zhdanov) Instituta virusologii AMN SSSR.

(WHOOPING COUGH) (MEASLES) (ADENOVIRUS INFECTIONS)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; YENICHEV, V.M.; PATRIKEYEV, G.T.;
SHEVELEV, V.M.; ZYBIN, V.D.; KORNEV, I.S.; ANAN'YEVA, Ye.P.
Prinimali uchastiye: ANDROSHCHUK, S.M.; NIKOLAYENKO, Yu.P.;
MAKAROVA, V.A.; CHERNOVA, Yu.S.; POYARKOVA, M.A.; IGONINA, Yu.A.;
MORDUYEVA, A.A.

Study of botulin anatoxins. Report No.2: Botulin anatoxin type B.
Zhur.mikrobiol., epid. i immun. 32 no.10:68-72 O '61. (MIRA 14:10)
(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; PATRIKEYEV, G.T.; ZYBIN, V.D.; KORNEV, I.S.;
ANAN'YEVA, Ye.P.; Prinsipali uchastiye: ANDROSHCHUK, S.M.; IGOMINA, Yu.S.;
SHMELEV, V.M.; MORDUYEVA, A.A.; NIKOLAYENKO, Yu.P.; MAKAROVA, V.A.;
CHEINOVA, Yu.S.; POYARKOVA, M.A.

Study of botulin anatoxins. Report No.1: Botulin anatoxin type A.
Zhur. mikrobiol., epid. i immun. 32 no.9:31-36 S '61. (MIRA 15'2)
(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

MAKAROVA, V.A.

Clinical course of scarlet fever combined with chicken pox [with summary in English]. Pediatrila 36 no.4:62-65 Ap'58 (MIRA 11:5)

1. Iz Moskovskoy infektsionnoy klinicheskoy bol'nitsy No.2 (glavnyy vrach A.M. Pal'tsova) i klinicheskogo otdeleniya Moskovskogo nauchno-issledovatel'skogo instituta vaktsin i syvorotok imeni I.I. Mechnikova (dir. A.P. Muzychenko, zav. klinicheskim otdelom Ye.I. Zverev).

(SCARLET FEVER)
(CHICKEN POX)

MAXAROVA, V.A.

Neuromorphological changes in radiation disease. Vop. psikh i nevr.
no.3:235-243 '58. (MIRA 12:3)

1. Iz kliniki nervnykh bolezney Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta i laboratorii normal'noy i patologicheskoy morfologii nervnoy sistemy Instituta eksperimental'noy meditsiny AMN SSSR.

(RADIATION---PHYSIOLOGICAL EFFECT)
(NERVOUS SYSTEM---DISEASES)

MAKAROVA, V. A.: Master Med Sci (diss) --"The pathomorphology of the central nervous system in the most acute form of radiation disease (Experimental-morphological investigation)". Leningrad, 1958. 14 pp (Min Health RSFSR, Leningrad Sanitary-Hygiene Med Inst), 200 copies (KL, No 4, 1959, 131)

MAKAROVA, V.A.; KOVALEV, V.Yo.

Field experiments with LTA herbicides. Gidroliz. i lesokhim.
prom. 14 no.6:31-32 '61. (MIRA 14:9)

1. Zernogradskaya gosudarstvennaya selektsionnaya stantsiya (for
Makarova). 2. Lesotekhnicheskaya akademiya imeni S.M. Kirova
(for Kovalev).

(Herbicides)

MAKAROVA, V.A.

Effect of antimicrobial substances of some higher plants on the
producers of corn diseases. Nauch. dokl. vys. shkoly; biol. nauki
no.4:152-154 '61. (MIRA 14:11)

1. Rekomendovana kafedroy botaniki Rostovskogo pedagogicheskogo
instituta.

(ROSTOV PROVINCE--FUNGI, PHYTOPATHOGENIC)
(CORN--DISEASES AND PESTS) (PHYTONICIDES)

USSR / Weeds and Weed Control.

N

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 1942

kernels lessened, and absolute weight increased. Wild turnip, bindweed, hemp, and sunflower were very sensitive to the herbicide; less sensitive were the weed *Falcaria rivini*, spurge, saltwort, and sweet clover; *Acroptilon picris*, wild pea (*Lathyrus*), and milkweed were resistant to the herbicides. The best time for the spraying of sowings of ear-producing plants and millet was the tillering period. If it is possible to apply chemical weeding in the tillering phase, it is safe to begin it in the period of full sprouting and to continue it during the shooting phase. -- L. D. Stonov

Card 2/2

USSR / Weeds and Weed Control.

N

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 1942

Author : Makarova, V. A.

Inst : Zernograd State Selection Station

Title : Industrial Experimentation and Introduction
of Chemical Weeding of Seeds of Grain Plants
in Rostov Region

Orig Pub : Sb. nauchn. rabot. Zernogradsk, gos. selekts.
st., 1957, vyp 2, 152-173

Abstract : The chemical weeding of grain plantings using
2,4-D and MCPA in a dosage of 1 kg/hectare
destroyed 60-80% of the weeds, and sometimes
100%; the harvest was increased 1-2 centner/
hectare, and in some cases 4-5 centner/hectare.
The quality of the crop was improved, con-
tamination reduced, water-content of the

Card 1/2

MAKAROVA, Vera Antonovna

[Weed control] Bor'ba s sorniskami. Rostov-na-Donu,
Rostovskoe knizhnoe izd-vo, 1955. 59 p.

(MIRA 14:1)

(Weed control)

1. MAKAROVA, V. A.
2. USSR (600)
4. Herbicides
7. New chemical substances in weed control. Dost. sel'khoz. no. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

31

108

V. A. MAKAROVA

Dependence of Plant Requirements for Boron on
Proportion of Mineral Elements in Nutrient Solu-
tions. (In Russian.) M. Ya. Shkol'nik and V. A. Ma-
karova. Doklady Akademii Nauk SSSR (Reports of the
Academy of Sciences of the USSR), Moscow, 1950, 4
Mar. 11, 1950, p. 199-102.

The influence of different proportions of various mi-
nerals (phosphorus, nitrogen, potassium, and iron) on
yields of flax and of wheat on soils containing boron
and on soils containing no boron was investigated.
Data are tabulated. 10 ref.

AS 57-55.4 METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

MAKAROVA, V. A.

Makarova, V. A. "On the problem of studying the biology of weed plants", Sbornik nauch. rabot (Rost. gos. selekts. stantsiya), Issue 1, 1948, p. 44-54.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, NO. 2, 1949).

MAKAROVA, V. A.

Makarova, V. A. "On the problem of the influence of certain agrotechnical procedures on the character and weediness of soil", Sbornik nauch. rabot (Rost. gos. selekts. stantsiya), Issue 1, 1948, p. 123-39.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, NO. 2, 1949).

PROBST, A.Ye., prof.; GOROLOV, Ya.L.; MAKAROVA, T.Ye.:

[Comparative technical and economic indices for the production and transportation of fuel in regions of the Soviet Union] Srovnatel'nye tekhniko-ekonomicheskie pokazateli po dobychu i transportu topliva po regionam SSSR Moskva, Izdatel'stvo "Nauka," 1964. 64 p. (GIRD 1719)

1. Sektor razrabotki i stroitel'stva toplivnykh transportnykh linii Soveta po issledovaniyu proizvodstva i byt'ii sily pri Gosplane SSSR (for Yakubov, Leningrad).

ARONOVA, S.M.; GASSANOVA, I.G.; KALEDA, G.A.; LOTSMAN, O.A.; MAKAROVA, T.V.;
NECHITAYLO, S.K.; RYZHOVA, A.A.; SOKOLOVA, L.I.

Maria Filippovna Filippova, 1907-1964; obituary. Lit. i pol.
iskop. no.6:181-182 N-D '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut (Moskva, Ye-257, zhosse Entuziastov, d.124).

MAKAROVA, T.V., red.; STEPANOV, D.L., doktor geol.-miner. nauk, red.;
BOGACHEVA, N.G., ved. red.; POLOSINA, A.S., tekhn. red.

[Stratigraphic schemes of Palaeozoic sediments; transactions]
Stratigraficheskie skhemy paleozoiskikh otlozhenii; trudy.
Permskaia sistema. Pod red. T.V.Makarovoi i D.L.Stepanova. Mo-
skva, Gostoptekhizdat, 1962. 242 p. (MIRA 15:6)

1. Soveshchaniye po utochneniyu unifitsirovannykh stratigraficheskiikh skhem paleozoya Volgo-Ural'skoy neftegazonosnoy provintsii, Moscow, 1960.
2. Leningradskiy gosudarstvennyy universitet (for Stepanov).
3. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut (for Makarova).
(Volga-Ural region---Geology, Stratigraphic)

SEMIKHATOVA, S.V., prof., glav. red.; FILIPPOVA, M.F., red.;
MAKAROVA, T.V., red.; IVANOVA, Z.P., red.; CHULKOVA,
V.V., red.; BEKMAN, Yu.K., ved. red.; POLOSINA, A.S.,
tekhn. red.

[Resolutions of the Conference on the Study of Accurate
Unification of Stratigraphic Scales of the Upper Proterozoic
and Paleozoic in the Volga-Ural Oil and Gas Region held in
Moscow at the All-Union Scientific Research Institute of
Petroleum Geology and Prospecting, February 12-20, 1960]
Resheniia soveshchaniia po utochneniiu unifitsirovannykh
stratigraficheskikh skhem verkhnego proterozoya i paleozoya
Volgo-Ural'skoi neftegazonosnoi provintsii, sostoiavshegosia
v Moskeve pri VNIGNI s 12 po 20 fevralia 1960 g. Moskva,
Gostoptekhizdat, 1962. 47 p. (MIRA 16:5)

1. Soveshchaniye po utochneniyu unifitsirovannykh stratigra-
ficheskikh skhem verkhnego proterozoya i paleozoya Volgo-
Ural'skoy neftegazonosnoy provintsii, Moscow, 1960.
(Volga-Ural--Geology, Stratigraphic)

ROZHKOVA, Ye.V.; SEREBRYAKOVA, M.B.; MAKAROVA, T.V.

Possibility of calcium phosphate precipitation in sea-water
basins. Min.syr'e no.6:46-60 '62. (MIRA 16:4)
(Calcium phosphates) (Deep-sea deposits)

SEMKHATOVA, S.; IVANOVA, Z.; MAKAROVA, T.; FILIPPOVA, M.

Information. Geol. nefiti 1 gaza 4 no.11:3 of cover N '60.
(MIRA 13:11)

(Geology, Stratigraphic)

SEMIKHATOVA, S.; MAKAROVA, T.; IVANOVA, Z.; FILIPPOVA, M.

Precized unified diagrams of the Paleozoic stratigraphy
of the Volga-Ural oil-bearing province, 1960. Geol.nefti
1 gaza 4 no.6:52-3 of cover Je '60. (MIRA 13:7)
(Volga Valley--Geology, Stratigraphic)
(Ural Mountain region--Geology, Stratigraphic)

MAKAROVA, T.V.

Permian stratigraphy and facies of eastern regions of the Russian Platform. Trudy VNIGNI no.22:147-154 '59. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy i neftyanoy institut.
(Russian Platform--Geology, Stratigraphic)

MAKAROVA, T.V.; GORNSHTEYN, N.A.

Permian sediments in the Buzuluk key borehole (southeastern slope
of the Russian Platform). Trudy VNIIGI no.13:146-170 '59.
(MIRA 13:1)

(Russian Platform--Geology, Stratigraphic)

MAKAROVA, S.V.; GORNSHTEYN, N.A.

Permian sediments. Trudy VNIGNI no. 10:52-59 '58. (MIRA 14:5)
(Russian Platform--Geology, Stratigraphic)

MAKAROVA, T.V.

SUVCHOV, G.A.; KISHINEV, M.P.; KISHINEV, M.P.; KISHINEV, M.P.;
NECHITAYLO, S.Y.; ~~MAKAROVA, T.V.~~; KISHINEV, M.P.; KISHINEV, M.P.;
IVANOVA, Z.P.; KISHINEV, M.P.

Central provinces of the Russian Platform. Trudy VNIIGI No. 101:171-248
'57. (MIRA 10:9)

(Russian Platform--Geology)

MAKAROVA, Tamara Vil'gel'movna; GORNSHTAYN, N.A., starshiy geolog.
Prinimali uchastiye: LACHINOVA, I.G., starshiy tekhnik-geolog;
ARUTYUNOVA, O.I., starshiy laborant; PATRIKI, V.I., starshiy
kollektor; NOSAL', V.I., red.

[Permian sediments in the central provinces of the Russian
Platform] Permskie otlozheniia tsentral'nykh oblastei Russkoi
platformy. Pod red. V.I.Nosal'. Leningrad, Gos.nauchno-tekhn.
izd-vo neft. i gorno-toplivnoy lit-ry, Leningr.otd-nie, 1957.
122 p. (MIRA 12:7)

(Russian Platform--Geology, Stratigraphic)

MAKAROVA, T.V.

Stratigraphic position of Ufa deposits. Trudy VNIIGRI no.7:135-144
'56. (MLRA 9:12)
(Geology, Stratigraphic)

MAKAROVA, T.V.

Fourth Conference of Embryologists. Nauch. dokl. vys. shkoly;
biol. nauki no. 2:201-202 '64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500028-6

MAKAROV, A.A., kand. sel'skokhoz. nauk; MAKAROVA, T.V., aspirant

Producing heterotic tomato seeds without castration. Izv.
TSKHA no.2:34-38 '63. (MIRA 16:10)

MAKAROVA, T.V.

Aleksandr Onufrievich Kovalevskii at the Petersburg University.
Trudy Inst. ist. est. i tekhn. 24:222-254 '58. (MIRA 11:8)

1. Kafedra embriologii Leningradskogo gosudarstvennogo universiteta
im. A.A. Zhdanova.
(Kovalevskii, Aleksandr Onufrievich, 1840-1901)

MAKAROVA, T.T.

Precalculation of the minimal water level on the Lena River
during the summer. Trudy TSIP no.134:13-31 '64
(MIRA 17:8)

MAKAROVA, T.T.

Summer and fall streamflow forecasts in the basin of the Dnieper
River. Trudy TSIP no.99:106-123 '61. (MIRA 14:5)
(Dnieper Valley--Hydrology)

ZMIYEVA, Ye.S.; MAKAROVA, T.T.

Results of soil moisture measurement with the ohmic soil moisture
meter. Trudy TSIP no.99:33-40 '61. (MIRA 14:5)
(Soil moisture--Measurement)

KALININ, G.P.; MAKAROVA, T.T.

Studying some problems of runoff during the period of spring
high water. Trudy TSIP no. 94:37-47 '59. (MIRA 12:8)
(Runoff)

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KALININ, G.P.: MAKAROVA, T.T.

Spring high-water forecasts. Trudy TSIP no.84:43-53 '59.
(MIRA 12:9)

(Floods)

Problems in Hydrological (Cont.)

SOV/2593

Piotrovich, V. V. Methods of Long-Range Forecasting of Ice Clearance
on the Stalingradskaya, Volzhskaya and Tsimlyanskaya GES
Reservoirs

99

Savchenkova, Ye. I. Increased Accuracy in Long-Range Forecasting Methods
of Ice Appearance on Rivers in Siberia and the Far East

115

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12/7/59

Problems in Hydrological (Cont.)

SOV/2593

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MAKAROVA, T. T.

3(3)

P. 2

PHASE I BOOK EXPLOITATION

SOV/2593

Moscow. Tsentral'nyy institut prognozov

Voprosy gidrologicheskikh prognozov (Problems in Hydrological Forecasting)
Moscow, Gidrometeoizdat, 1959. 122 p. (Series: Its Trudy, vyp. 84)
Errata slip inserted. 900 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri
Sovets Ministrov SSSR.

Eds. (Title page): V. V. Piotrovich and V. I. Sapozhnikov; Ed. (Inside book):
M. I. Sorokina; Tech. Ed.: I. M. Zarkh.

PURPOSE: This issue of the Institute's Transactions is intended for hydro-
logists and meteorologists.

COVERAGE: Individual articles discuss the problem of evaluating the methods
and the verification rate of hydrological forecasts, the forecasting of
high-water discharge and ice phenomena on rivers and water reservoirs, and
the use of intake curves in forecasting. No personalities are
mentioned. References accompany each article.

Card 1/3

PHASE I BOOK EXPLORATION . 807/4311

Moscow. Tsentrall'nyy institut prognozov

Voprosy glavnogo (Problems in Hydrology) Moscow, Glavstatizdat (Oct.-Dec.) 1975. 30 p. (Series: 10: Izv. 177. 34) 800 copies printed.

Sponsoring Agencies: Tsentrall'nyy institut prognozov; Glavnyy upravleniye glavnostatizdatov sluzhby pri Sovetskom Ministre SSSR.

Ed. (Title page): V.Ya. Podrzhenskaya; Ed. (Inside book): V.S. Kuznetsov; Trans. Ed.: E.A. Zaitseva.

PURPOSE: This publication is intended for hydrological forecasters in field offices of the Hydrometeorological Service. It will also be of interest to scientific research workers.

CONTENTS: This issue of the Transactions of the Central Institute of Weather Forecasting contains articles dealing with problems in hydrological forecasting. Individual articles discuss forecasting of snowmelt runoff, forecasting on the basis of grombeter, flood runoff and maximum discharge forecasting, etc. Prediction of forecasting methods is given and their accuracy is analyzed. 10 publications are listed.

Baltin, G.P., and T.A. Mikhaylovskaya. Investigation of Some Problems of Spring Flood Runoff 37

Baltin, G.P., and T.A. Mikhaylovskaya. Investigation of Some Problems of Spring Flood Runoff 37

Baltin, G.P., and T.A. Mikhaylovskaya. Investigation of Some Problems of Spring Flood Runoff 37

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Baltin, G.P., and T.A. Mikhaylovskaya. Investigation of Some Problems of Spring Flood Runoff 37

ANNEXES: Library of Congress

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KALININ, G.P.; MAKAROVA, T.T.

Use of the water balance equation in calculating and forecasting the
runoff and factors influencing it. Trudy TSIP no. 75:29-46. '58.

(MIRA 11:11)

(Runoff)

KALININ, G.P.; MAKAROVA, T.T.

Methods for determining the losses of melted-snow-water runoff.
Trudy TSIP no.65:3-22 '58. (MIRA 11:6)
(Runoff)

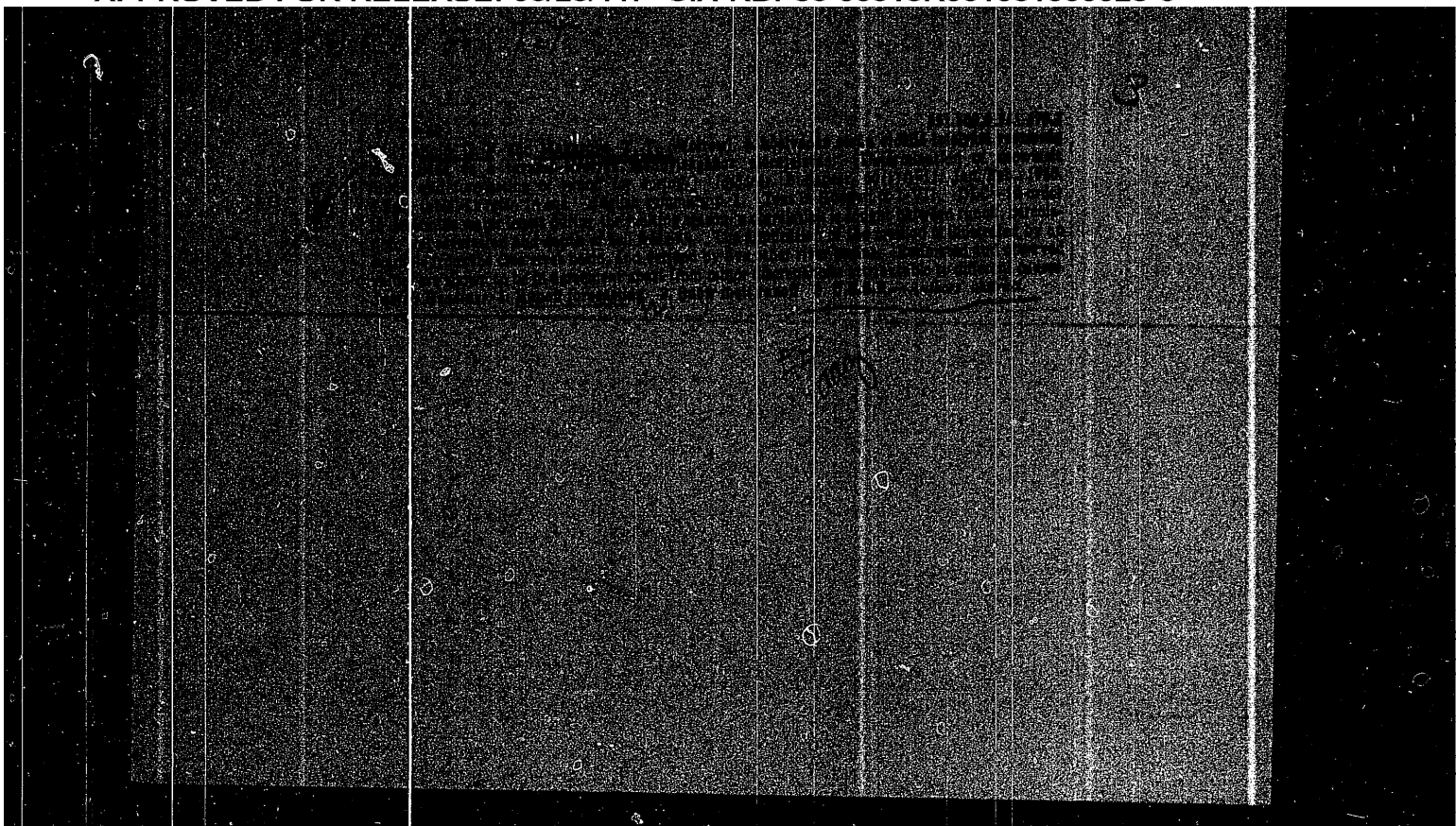
MAKAROVA, TAT'YANA TIMOFEYEVNA

KALININ, Genadiy Pavlovich; MAKAROVA, Tat'yana Timofeyevna; SOMOV, N.V.,
otvetstvennyy redaktor; SHATILINA, M.K., redaktor; FLAUM, M.Ya.,
tekhnicheskiiy redaktor.

[Hydrometeorological factors determining the occurrence of high
water in the flat land rivers of European Russia] Gidrometeorologi-
cheskie usloviia formirovaniia vysokogo polovod'ia na ravninnykh
reках Evropeiskoi territorii SSSR. Leningrad, Gidrometeorizd-
vo 1957. 177 p. (MLRA 10:6)

(Rivers)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500028-6

MAKAROVA, T. T.

Cand. Tech. Sci.

Dissertation: "Investigation of Drinking Water for Animals and the Effect of Water Balance." 17 pp. 49

Central Inst. of Veterinary Hygiene, U.S.S.R.

SO Vecheryaya Moskva
Sum 71

ACC NR: AT6036937

obtained at pH 3--4, a moisture content of suspension of 40%, and an Si content of 40%. The optimum firing temperature was found to be 1300--1400C. On the basis of the above results, a pilot project for the manufacture of refractory bricks has been initiated at the Podolsk Refractories Plant. Orig. art. has: 5 tables.

SUB CODE: 11/

SUBM DATE: 02Nov65/

ORIG REF: 002

Card 2/2

ACC NR: AT6036937

SOURCE CODE: UR/0000/66/000/000/0153/0158

AUTHORS: Guzman, I. Ya.; Pankratova, V. S.; Makarova, T. S.; Vinogradova, L. V.; Logacheva, N. S.

ORG: none

TITLE: The influence of some technological parameters on the manufacture and properties of cellular carborundum light-weight refractories

SOURCE: Nauchno-tekhnicheskoye obshchestvo chernoy metallurgii. Moskovskoye pravleniye. Vysokoogneyupornyye materialy (Highly refractory materials). Moscow, Izd-vo Metallurgiya, 1966, 153-158

TOPIC TAGS: carborundum, silicon carbide, silicon, refractory product

ABSTRACT: A method for obtaining light-weight, cellular carborundum refractories made of β -SiC, Si_2ON_2 , and SiO_2 is described. This investigation supplements the results of I. Ya. Guzman and V. S. Morozova (Ogneupory, 1963, No. 12, 558). The method consists of the adding an intimate mixture of SiC + Si to an aqueous HCl solution and of subsequent firing in carbon-containing media in a CO + N₂ atmosphere. The effects of the silicon composition and grain size of the mixture, pH of suspension, and the firing temperature on the properties of the finished product were investigated. The experimental results are tabulated. It was found that the best results were

Card 1/2

ACC NR: AT6036929

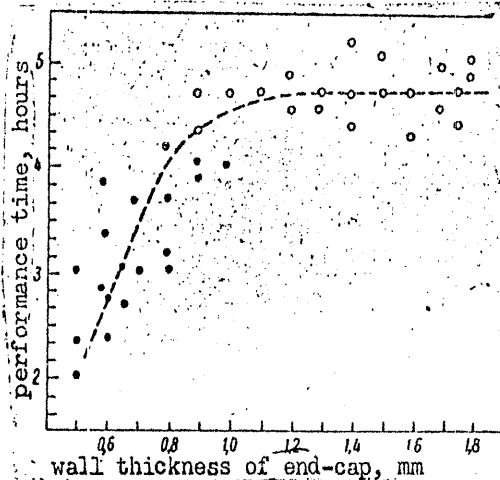


Fig. 1. Dependence of stability of refractory end-caps for thermocouples on the wall thickness of caps. Open circles, end-cap intact; shaded circles, end-cap destroyed

protective thermocouple sheaths are being mass-produced at the Podolsk Refractories Plant. Orig. art. has: 4 tables and 2 graphs.

SUB CODE: 11, 13, 09 SUBM DATE: 02Nov65/

ORIG REF: 006

Card 2/2

ACC NR: AT6036929

SOURCE CODE: UR/0000/66/000/000/0072/0081

AUTHORS: Rutman, D. S.; Vinogradova, L. V.; Makarova, T. S.

ORG: none

TITLE: High-temperature protective ceramic sheathing for thermocouples

SOURCE: Nauchno-tehnicheskoye obshchestvo chernoy metallurgii. Moskovskoye pravleniye. Vysokoogneupornyye materialy (Highly refractory materials). Moscow, Izd-vo Metallurgiya, 1966, 72-81

TOPIC TAGS: refractory product, refractory oxide, refractory coating, thermocouple

ABSTRACT: This paper is a short survey of the development and research work carried out since 1958 in the Podolsk Refractories Plant (Podol'skiy zavod ogneupornykh izdeliy) with the aim of producing high-temperature protective sheathing for thermocouples. It is desired to manufacture: 1) protective thermocouple caps made from a mixture of alumina and metalloceramic additives; 2) protective thermocouple sheathing made from alumina, zirconium dioxide, and magnesium oxide; 3) protective ceramic sheathing for thermoelectric materials made from aluminum and magnesium oxides. The chemical composition of the various ceramic materials and the mechanical stability and electrical resistivity of the ceramic sheathing are shown in graphs and tables (see Fig. 1). On the basis of the experimental results, ceramic high-temperature

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ACC NR: AT6036927

studies culminated in initiating production (at the Podolsk Plant) of periclase refractories with granular structure and a maximum content of MgO, designed to serve as high-temperature lining materials and melting crucibles. Orig. art. has: 4 tables.

SUB CODE: 11/ SUBM DATE: 02Nov65/ ORIG REF: 013

Card 2/2

ACC NR: AT6036927

SOURCE CODE: UR/0000/66/000/000/0054/0062

AUTHORS: Serova, G. A.; Komissarova, N. M.; Vinogradova, L. V.; Makarova, T. S.

ORG: none

TITLE: Periclase refractories based on technical magnesium oxide

SOURCE: Nauchno-tekhnicheskoye obshchestvo chernoy metallurgii. Moskovskoye pravleniye. Vysokoogneupornyye materialy (Highly refractory materials), Moscow, Izd-vo Metallurgiya, 1966, 54-62

TOPIC TAGS: magnesium oxide, refractory oxide, high temperature ceramic material, refractory product, aluminum oxide

ABSTRACT: Results are reported from the study of production and properties of periclase refractories made of technical 98% MgO in the form of grains of sintered briquets. Sintered briquetting material was crushed, freed of iron impurities, and sieved. A fraction of < 0.5 mm was ground to obtain grain size < 0.06 mm, which was pressed into cylinders 36 mm in diameter and 50 mm high. The specimens were fired at 1730C for 1 or 4 hours. The porosity of the samples was 17--19%; they maintained a constant volume at 1800C and possessed a higher thermal stability than products made of sintered MgO. Introducing $\sim 8\%$ of Al_2O_3 increased considerably the thermal stability (two to four times the number of thermal cycles). These

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enrichment and strengthening of water-based castings are described. Possible means for producing zirconium dioxide articles without prior stabilization of the material, conditions for the stabilization process, and the effect of the raw zirconium dioxide quality upon the production technology and properties of the products are discussed. Production of magnesium oxide articles has been investigated for the possibilities of MgO dispersion without subsequent chemical enrichment, and the conditions for molding the products by using aqueous suspensions with minimal hydration are described. Mass production of refractory ceramic products such as crucibles, pipes, pyrometric equipment, etc is explained. Orig. art. has: 7 tables.

SUB CODE: 11/ SUBM DATE: 02Nov65/ ORIG REF: 020/ OTH REF: 002

Card 2/2

ACC NR: AT6036925

SOURCE CODE: UR/0000/66/000/000/0021/0039

AUTHORS: Rutman, D. S.; Vinogradova, L. V.; Makarova, T. S.

ORG: none

TITLE: Advancements in the technology of pure oxide ceramics under industrial conditions

SOURCE: Nauchno-tekhnicheskoye obshchestvo chernoy metallurgii. Moskovskoye pravleniye. Vysokoogneupornyye materialy (High refractory materials). Moscow, Izd-vo Metallurgiya, 21-39

TOPIC TAGS: oxide ceramic, refractory oxide, corundum refractory, magnesium oxide, refractory product

ABSTRACT: Fundamentals of the industrial technology of ceramic products made of pure oxides are presented. The developments in aluminum, magnesium, and zirconium oxide product technology, described by D. S. Rutman and L. V. Vinogradova (Trudy NTO ChM, t. 27, 1961, 142--147) and D. S. Rutman and Ye. R. Skuye (Issledovaniye v oblasti glubinykh protsessov. Izd. AN SSSR, 1962; 228--238), at the Podolsk Plant of Refractory Products are summarized, and further advancements in these fields are reported. Practical production methods for corundum articles with maximum durability and minimal flaws attainable at optimal firing temperature, and methods for chemical

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ACC NR: AP6030183

temperature for 6-9 hours. The apparent density (volumetric weight) of the crucibles was 6.6-6.4 g/cm³ and the apparent porosity was less than 1%. A comparison of the calculated and residual cerium concentrations in alloys melted in CeO₂ and La₂O₃ crucibles shows satisfactory retention of Ce in cerium dioxide crucibles during melting. Metallographic analysis of nickel-cerium alloys melted in CeO₂ crucibles in a vacuum shows that the purity of the metal is comparable to the purity of nickel melted in alumina crucibles with hydrogen treatment. Orig. art. has: 1 figure and 1 table. [JPRS: 36,774]

SUB CODE: 11, 13 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 001

Card 2/2 *egh*

I 46317-66 EWP(e)/EWT(m)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/JG/DJ

ACC NR: AP6030183

SOURCE CODE: UR/0131/66/000/005/0027/0029

AUTHOR: Ivanov, Ye. G.; Filippov, A. F.; Min'kov, D. B.; Makarova, T. S.;
Vinogradova, L. V. 23 BORG: [Ivanov; Filippov] Moscow Institute of Steel and Alloys (Moskovskiy institut
stali i splavov); [Min'kov; Makarova; Vinogradova] Podol'sk Refractories Plant
(Podol'skiy zavod огнеупорных изделий)

TITLE: Melting crucibles made from cerium dioxide 17

SOURCE: Ogneupory, no. 5, 1966, 27-29

TOPIC TAGS: powder metallurgy, metallurgic furnace

ABSTRACT: The authors describe the manufacture of CeO_2 melting crucibles by powder metallurgy and slip casting. Cerium dioxide powder with grains measuring 5-15 μ in diameter was mixed with 6-8% binder based on 95% paraffin and 5% oleic acid. A steel mold was used which was prelubricated with a thin layer of oleic acid. Pressing was done at a pressure of 200 kg/cm^2 . The crucible was then slowly heated for 10-12 hours to 1200°C and final sintering was done in a resistance furnace at 1500-1600°C. Water suspensions of cerium dioxide were used for slip casting. The slip had a pH of 4-5 and a moisture content of 58-60%. The suspension was allowed to stand for at least 24 hours before casting. After removal from the mold, the crucibles were heated to 1700-1750°C at a rate of 30-40 deg/hr and held at the final

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UDC: 666.78